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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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Attorney Docket No.: 040782-5057

To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

ATTN: BOX ASSIGNMENT

1. Name of conveying party(ies):

- 1. Fumihiko HORIZOME
- 2. Tetsuya YAMADA

Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies):

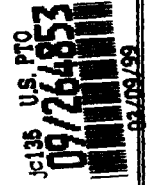
Name: *Pioneer Electronic Corporation*

Internal Address:

Street Address: 4-1, Meguro 1-chome, Meguro-ku,  
Tokyo, Japan

City: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached?  
 Yes  No



3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: March 8, 1999

4. Application number(s) or patent number(s):

If this document is being filed together with a new application the execution date of the application is:  
March 8, 1999

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

Additional numbers attached:  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. J. Michael Thesz

Internal Address: Morgan, Lewis & Bockius LLP  
Customer No. 009629

Street Address: 1800 M Street, N.W.  
City: Washington State: D.C. Zip: 20036

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R §3.41): \$40.00  
 Enclosed  
 Authorized to be charged to deposit account 50-0310

8. Deposit account number: 50-0310  
Attach duplicate of page if paying by deposit account

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

J. Michael Thesz  
Name of Person Signing

Signature

March 9, 1999  
Date

03/18/1999 DMSUYEN 00000251 09264853

Total number of pages including cover sheet, attachments and documents: 3

41-EE-1541 40.00.00

WA01A/24265.1

ATTORNEY DOCKET NO.: 040782-5057  
 JOINT INVENTION  
 (U.S. Rights Only)

### ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

#### RECEIVER WITH AUTO GAIN CONTROL CIRCUIT OF RF SIGNAL

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on \_\_\_\_\_ (Application No. \_\_\_\_\_); and

WHEREAS, Pioneer Electronic Corporation a corporation of Japan, whose post office address is 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/WE have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

|   |   |                             |
|---|---|-----------------------------|
| <b>Full Name of Sole or First Assignor</b><br>Fumihiko HORIGOME   | <b>Assignor's Signature</b><br><i>Fumihiko Horigome</i> | <b>Date</b><br>MAR, 8, 1999 |
| <b>Address:</b> c/o Pioneer Electronic Corporation, Kawagoe Works,<br>25-1, Aza Nishi-machi, Ohaza Yamada, Kawagoe-shi, Saitama,<br>JAPAN |   | <b>Citizenship</b><br>Japan |

|   |  |                             |
|---|--|-----------------------------|
| <b>Full Name of Second Assignor</b><br>Tetsuya YAMADA   | <b>Assignor's Signature</b><br><i>Tetsuya Yamada</i> | <b>Date</b><br>Nov. 8, 1999 |
| <b>Address:</b> c/o Pioneer Electronic Corporation, Kawagoe Works,<br>25-1, Aza Nishi-machi, Ohaza Yamada, Kawagoe-shi, Saitama,<br>JAPAN |  | <b>Citizenship</b><br>Japan |

Names of additional inventors attached:  Yes  No**Morgan, Lewis & Bockius LLP**